



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Confirmation No. 2831
Toru SHIOZAKI et al. : Docket No. 2002_0249
Serial No. 10/075,618 : Group Art Unit 3663
Filed February 15, 2002 : Examiner A. Sommer
OPTICAL AMPLIFYING DEVICE

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Bentley
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AMENDMENT

Assistant Commissioner for Patents,
Washington, D.C.

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEES FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975

Sir:

In response to the Office Action mailed June 11, 2002, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please replace paragraph [0003] with the following rewritten paragraph:

a1
Optical surges are caused by transient response of optical amplifiers. How much the input optical signal is degraded in a waveform depends on the characteristics of the optical amplifier, such as a relaxation time constant. Waveform degradation also depends on the input optical signal itself. As the input light varies in power, the waveform becomes degraded.

Please replace paragraph [0004] with the following rewritten paragraph:

a2
FIG. 18a shows the waveform of an optical signal when the amount of data traffic is small and data is intermittently transmitted, such as a case where data packets are spaced long. If such burst optical signal as shown in FIG. 18a is provided to an optical amplifier, temporary periods during which no data is provided at all are observed, which are hereinafter referred to as a no-data period. If an optical signal is provided after a long no-data period, input light optical power varies.